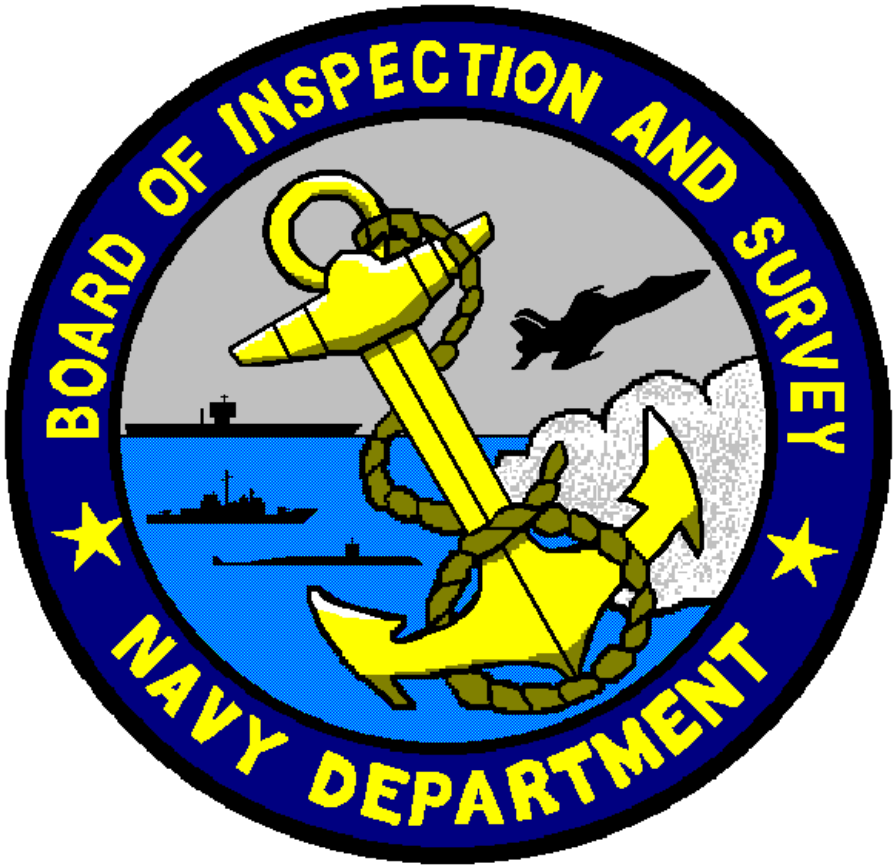

ENGINEERING CHECKS

LPD 7 CLASS

AUXILIARIES (AX)
PRE-UNDERWAY PHASE

5811	ANCHOR WINDLASS (Inport Drop Test)	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual Support		
Inspect PMS Support		
Inspect posted operating/safety instructions and lubrication data		
Inspect fluid samples		
Inspect for proper HPU fluid levels		
Inspect for proper lubrication of mechanical components		
Inspect Gauge Calibration		
Inspect relief valve data is properly posted		
Inspect all flex hoses are properly tested and labeled		
Inspect mechanical brake operator linkages		
Inspect stroke control linkages		
Inspect flange shields		
Inspect for adequate nitrogen charge for windlass		
Inspect speed limiter		
Inspect for adequate LP air pressure for chain compressor		
Inspect capstan/wildcat brake assembly – mechanical brake components (worm gear end cap as required).		
Inspect electric brake		
Inspect filter differential indications		
Inspect HPU mechanical seal leakage		
Test Compensating Relief Valve is properly set		
Test - Conduct Inport Anchor Drop test		
- Inspect Servo/Replenishment Pressures during wildcat operation		
- Inspect Chain Compressor operation		
- Inspect Anchor drops from the hawsepipe		
- Test electric brake operation		
- Inspect reduction gear lubrication (gauges/sight flows/dipsticks)		
Test crossover valve operation		
Test wildcat/windlass solenoid switch		
Test Main Relief Valve lifts correctly		

5600 / 5611	STEERING (Inport System Verification)	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect operating/safety instructions and hydraulic system/electrical wiring diagrams are posted		
Inspect proper fluid levels		
Inspect hydraulic oil fill connections are properly labeled		
Inspect fluid samples		
Inspect Gauge Calibration		
Inspect rudder stock grounding straps		
Inspect filter indicators		
Inspect Servo/Replenishment Pressures are correct		
Inspect all flex hoses are properly tested/labeled		
Inspect flange shields are properly installed		
Test N2 accumulators are properly charged		
Test the trick wheel stops		
Inspect the crush block clearances		
Test the rudder follow up error (1 deg increments at 0 to 5 deg; 5 deg increments at 5 to 25 deg)		
Test ABT operation		
Test compensator relief valve settings		
Test main relief valve settings		
Test (inport) rudder swing checks		
Test (inport) blocking valve		
Test auxiliary emergency steering pump		
Test manual emergency steering system		
Inspect ram for scoring		
Test steering casualty alarm		
Test pump remote operation and transfer of controls to pilot house		
Test for static rudder split (pilot house in control)		
Test for indicator error (pilot house in control)		

A-002/105-11	EMERGENCY/SHIP'S SERVICE DIESEL GENERATORS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Engine Sump Level		
Inspect Turbocharger Sump Level		
Inspect Start Air Lubricator Oil Level		
Inspect Governor Oil Level		
Inspect Lube Oil Sample		
Inspect J/W Expansion Tank Level		
Inspect "Do not open access…" and Expansion Tank warning "Poison…" are posted		
Inspect/test fuel valve trip		
Inspect Relief Valves		
Inspect Flange Shielding		
Inspect For Exhaust Leaks		
Inspect Filters, Strainers		
Inspect Governor and Fuel Linkage for Binding		
Inspect J/W Standby Pump		
Test Blow In Damper		
Test pre-lube system operation		
Test Jacket Water High Temp Alarm		
Test Lube Oil Filter High DP Alarm		
Test low lube oil pressure alarm		
Test Remote Shut Down		
Test Local Shut Down		
Test Barring Device Interlock		
Test Engine Blow Down		
Test Local Pneumatic start		
Test dead bus auto start		
Test Overspeed Trip		
Test 80% load for 15 minutes		
Inspect for fuel/lube oil leaks		
Inspect pyrometer operation		
Inspect manometer		
Inspect sea water cooling pump		
Test high water/generator bearing temp alarm		

5512 / 5513 / 5515	LOW and MEDIUM PRESSURE AIR SYSTEM	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instructions are posted		
Inspect compressor oil level and oil samples		
Test compressor pressures and temperatures		
Test compressor capacity control system		
Inspect compressor belt condition		
Test compressor auto control and safety switches		
a. Operational control switches (115/120/125)		
b. Low oil pressure		
c. High discharge pressure		
d. High air and water temp		
Inspect all relief valve testing is within periodicity		
Inspect location of intake/vent supply		
Inspect receiver flask certification		
Test priority valve operation		
Inspect sea water cooling system		
Inspect 50/50 mixture of ethylene glycol		
Test type I and type II dehydrator operation		
a. Gauge calibration		
b. Tower operation		
c. Purge air pressure		
d. Automatic drain operation		
e. Dew point		
f. Inspect PMS and Tech Manual support		

5210	FIRE PUMPS (ELECTRIC and STEAM)	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect Transducer Calibration		
Inspect Coupling Guard		
Inspect relief valves are within periodicity		
Test remote start/stop functions		
Test local start/stop functions		
Inspect pump operation/design discharge pressure, unusual noise, bearing temps, etc.		
Test the over speed trip (STEAM)		
Test the speed limiting governor (STEAM)		
Test the turbine auxiliary lube oil pump low-pressure automatic start switch operation (STEAM)		
Inspect lube oil filter indications and oil level (STEAM)		
Test combination exhaust and relief valve (STEAM)		
Inspect the packing and mechanical seal leakage		
Inspect for ferrous fasteners		
Inspect the resilient mounts		
Inspect condition of expansion joints		
Inspect all flex hoses are properly tested/labeled		
Inspect piping lagging		
Inspect grounding straps		
Test remote operated suction/discharge valves		
Inspect the suction strainer		

A-262	STERN GATE	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual support		
Inspect PMS support		
Inspect operating/safety instructions are posted		
Inspect hydraulic oil fill connections are labeled		
Inspect Local Control Panel (indicator lights, communications, operation)		
Inspect gauge calibration		
Inspect filter indicators		
Inspect all relief valve testing is within periodicity		
Test safety switches (up limit; up over travel limit; closure down)		
Inspect rail bolts		
Inspect slack rope		
Test hydraulic pump (foundation, mech seal, relief valve tested, filter DP indicators and coupling guard)		
Inspect operating cables and set spring		
Test pump operation (cycle gate open/closed)		
a. Cycle gate open/closed from all stations		
b. Record time required to open/close gate		
c. Test emergency hand pump operation		
Inspect gate seal for leakage and deterioration		
Inspect gate locking device		
Inspect ram and track condition		
Inspect emergency rigging		
Inspect LCAC extension fendering system (barndoor)		
a. limit torques		
b. reduction gears		
Test: Conduct underway operational test during ballast/deballast demonstration		

A-702/020-61	DEBALLAST COMPRESSORS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instructions are posted		
Inspect compressor oil level and oil samples		
Inspect check valve in the discharge line		
Inspect all relief valve testing is within periodicity		
Inspect the seawater cooling system		
Inspect installed alarm panel operation		
Test compressor safety switches		
a. Low lube oil pressure cutout		
b. High air pressure cutout		
c. High temperature lube oil shutdown		
d. High temperature lube oil alarm		
e. Dirty air filter alarm		
f. Dirty air filter cutout		
Test operational remote/local start/stop /Controller		
Test check valve in the discharge line		
Test unloader valve		
Inspect de-ballast air header valves		
Test header pressure can be maintained		
Test the discharge pressure		
Test: Conduct underway operational test during ballast/deballast demonstration		

5140	AIR CONDITIONING PLANTS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect EPA certifications		
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instructions are posted		
Inspect compressor oil level and oil samples		
Inspect warning at entrance (Freon usage) posted		
Inspect Refrigerant logs		
Test halocarbon monitor operation		
Test capacity control system operation		
Test calibration of safety shutdowns/alarms		
a. HP/LP pressure switches		
b. C/W, S/W flow/press/temp switches		
c. Low refrigerant temp switch		
d. Low oil pressure switch		
Inspect moisture indicators		
Test compressor operation (parameters, suct/disch valves)		
Test for leaks (oil/freon/water)		
Inspect chilled water pump		
a. suction valve		
b. discharge valve		
c. mechanical seal		
Inspect chilled water expansion tank		
a. Proper operating level		
b. Filling pipe air gap		
c. Relief valves and vacuum breakers		
d. Hose disconnects and warning sign		
Test PPU		
Inspect recovery unit (Inventory Item)		
Inspect for available vacuum pump		
Inspect sea water system		
a. Pump operation		
b. Zincs and nylon tube inserts present		
c. Condenser header condition		
d. Seawater Regulating valve		
Inspect motor controller		
Inspect coupling guard		

Inspect resilient mounts		
Inspect flex hoses		

AUXILIARIES (AX)
UNDERWAY DEMO PHASE

5811	ANCHOR WINDLASS DROP AND RETRIEVAL DEMONSTRATION	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test - Conduct Anchor Drop and Retrieval test		
- Inspect Servo/Replenishment and Main Relief Pressures during wildcat operation		
- Inspect Anchor drops from the hawsepipe		

5600 / 5611	STEERING DEMONSTRATION	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect proper fluid levels		
Inspect correct Servo/Replenishment pressures		
Test - Demonstrate timed rudder swing checks/ blocking valve test Ahead (as per provided procedure)		
Test - Demonstrate timed rudder swing checks/ blocking valve test Astern (as per provided procedure)		
Inspect for dynamic rudder split from helm indicator		

5331	WATER HEATERS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect list of heaters onboard and spaces hot water services (berthing/laundry/galley)		
Inspect gauge calibration		
Inspect outlet temp at heater (verify operation)		
Inspect relief valve test data		
Inspect relief valve drain piping		
Inspect cold water inlet pipe for check valve		
Test high temp switch setting		
Test high temp switch warning light		
Inspect lagging condition		
Inspect for steam / water leaks		
Inspect Temp Reg Valve for locking device		
Inspect heater foundation		
Test water temp at basin/spigot		

5351	STEAM RISER and COPPER SERVICE STEAM PIPING	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Gauge calibration		
Inspect PMS Support		
Inspect warning placard posted – warning bleed pressure before disconnecting…		
Inspect piping/valve condition and operation		
Inspect protective cover		
Inspect relief valve for test data		
Inspect overall area preservation		

Inspect ship has reviewed NAVSEA Wash DC R 130557Z FEB 01 concerning copper piping		
Inspect the ship has established an inspection program IAW NAVSEA message		
Inspect - Conduct a walkthrough of all copper service steam piping to check for leaks IAW NAVSEA message		

5311	WATER PRODUCTION DEMONSTRATION – FLASH TYPE EVAPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect PMS and Tech Manual support		
Inspect gauge calibration		
Test flow meter		
Inspect evaporator shell (sight glasses, diffuser cap and scale buildup)		
Test salinity dump valves		
Test interlock device between potable water and feed water valves		
Inspect feed pump (labeled, packing gland, foundation, seal / gland cavity)		
Inspect brine pump (labeled, packing gland, foundation, seal / gland cavity)		
Inspect distillate pump (labeled, packing gland, foundation, seal / gland cavity)		
Inspect brine pump (labeled, packing gland, foundation, seal / gland cavity)		
Inspect heater drain pump (labeled, packing gland, foundation, seal / gland cavity)		
Inspect flexible hose condition and test tag		
Inspect feedwater strainer (foundation and basket)		
Inspect pipe labeling and lagging condition		
Test – Demonstrate 80% water production capability during the 4 Hour Water Production Demonstration		

8543	DUMBWAITER	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect posted operating/safety instructions at each station		
Inspect posted lubrication chart at top station		
Inspect trunk bi-parting doors		
Inspect machinery access cover bolts & nuts		
Inspect machinery oil level		
Inspect hoist machinery mounting hardware		
Inspect hoist drum		
Inspect hoist wire rope and end fittings		
Test slack rope device and limit switch		
Test the hoist brake		
Test the up over travel limit switch		
Test the up deck level limit switch		
Test trunk bi-parting door limit switch		
Inspect car broken rope device		
Inspect car bi-parting door assembly		
Inspect car for missing components		
Test lower level trunk bi-parting doors and limit switch		
Test down over travel limit switch		
Test down level limit switch		
Inspect trunk buffer springs		
Test E-call and sound powered phone system when installed		
Inspect clean out cover mounting hardware		
Inspect motor controller for loose leads, posted placards, grounds and correct fuses		
Inspect dumbwaiter trunk for preservation and cleanliness		
Inspect guide rails		
Test each control station E-stop button		

8543	PACKAGE CONVEYOR	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect posted operating/safety instructions (two man rule/ do not ride) at each station		
Inspect posted lubrication chart at top station		
Test for audible warning when starting conveyor		
Inspect that all station doors are locked		
Inspect that all station controllers are locked		
Test door interlock system		
Inspect load/unloader at each station		
Test door cannot close when loader/unloader is in horizontal or 30 deg inclined position		
Test loader/unloader down interlock switch at each station below upper most level		
Test jam limit switch at each station		
Inspect safety shields are properly installed		
Test up-over travel switch/device operation		
Test clean out door interlock switch if applicable		
Test down overtravel device and switch		
Test indexing feature		
Test E-stop and run/stop buttons at all stations		
Inspect proper florescent lighting at each station		
Inspect trunk shielding and mounting hardware		
Inspect trunk guide rails		
Inspect conveyor trunk for preservation/cleanliness		
Inspect all carrier trays are installed and tight		
Test all station growlers and phone circuits are functional and headsets are present		
Inspect conveyor has been load tested within the last five years to include weight test data		
Inspect speed reducer is filled to proper level with oil		
Inspect drive, driven and carrier chains are properly tensioned		
Test bite panel for correct components and proper operation		
Inspect motor controller for loose leads, posted placards, grounds and correct fuses		
Inspect drive machinery for missing/loose components		

5161	REFRIGERATION PLANTS	
Components/Sub-Components	Proposed Procedure	Accepted Procedure
Inspect EPA certifications		
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect operating/safety instructions are posted		
Inspect compressor oil level and oil samples		
Inspect warning at entrance (Freon usage) posted		
Inspect Refrigerant logs		
Test halocarbon monitor operation		
Test capacity control system operation (vent plug)		
Test calibration of alarm / shutdowns		
a. HP / LP pressure switches		
b. Sea water flow / pressure switch		
Test compressor operation (parameters, suction/discharge valves)		
Inspect for piping suppressors		
Inspect for leaks (oil/freon/sea water)		
Inspect refrigerant recovery system/vacuum pumps		
Inspect sea water system (pump operation, zincs, nylon tube inserts, and condenser header)		
Test chill/freezer boxes for fan operation, lighting, coil condition and curtains		
Inspect ventilation (flow/location/indicators and alarms		

6641	FAN ROOMS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect deck condition		
- No standing water		
- Deck rusted / exfoliated		
- Deck drain not installed		
- Deck drain missing, not secured within deck socket or inoperative		
Inspect deck/bulkheads have no painted over rust		
Inspect lighting is operative and covers installed		
Inspect adequate lighting present in space		
Inspect vent duct condition		
- Access covers present		
- Access cover fasteners not rusted/missing		
- Duct interior is clean		
Inspect correct vent/piping system labeling		
Inspect fan motor installed correctly (flow)		
Inspect filters are clean and can be easily removed		
Inspect filter DP gauge is operative		
Inspect vent heating element is operative and not deteriorated		
Inspect cooling coils are clean		
Inspect thermostatic controls are calibrated, connected and operational		
Inspect the cooling coil drain is piped to the deck drain and is not clogged		
Inspect the proper color coding of piping		
Inspect that all hand wheels are present		
Inspect for damaged / missing lagging		
Test the C/W or steam solenoids are operational		
Inspect for chilled water / steam leaks		
Inspect for bull's eye and CCOL in space		
Inspect for any unauthorized stowed material		
Inspect for any unauthorized flammables		
Inspect the filter cleaning shop		

5420	WELL DECK / LCAC FUEL SYSTEM	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS /AFOSS support kept in refueling station spaces.		
Inspect Pump Rooms		
a. Inspect PMS Support		
b. Inspect Gauge Calibration		
c. Inspect operating/safety instructions are posted		
d. Test electric transfer pumps		
e. Test electric service pumps		
f. Test electric stripping pump		
g. Test hand stripping pump		
h. Test Auxiliary pump		
i. Inspect all relief valve testing is within periodicity		
j. Inspect TLI indicating panel		
k. Test operational remote/local start/stop /Controller		
l. Test purifiers		
m. Inspect transfer filter separator		
n. Inspect service filter separator		
o. Inspect installed alarm panel operation		
p. Test all system safety devices/alarms		
q. Test air pilot automatic discharge control valves		
Inspect refueling station		
a. Inspect fueling nozzles to ensure they are clean and free of any damage		
b. Inspect hoses for dry rot, excessive chaffing and hydrostatic test tags		
c. Inspect hose reel for free rotation		
d. Test hose reel hand brake		
e. Inspect Gauge Calibration		
f. Test De-fuel pump		
g. Test fuel pressure		

5331	POTABLE WATER PUMPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect Transducer Calibration		
Inspect Coupling Guard		
Test local start/stop functions		
Inspect pump operation/design discharge pressure, unusual noise, bearing temps, etc.		
Inspect packing and mechanical seal leakage		
Inspect for ferrous fasteners		
Inspect foundation and resilient mounts		
Inspect all flex hoses are properly tested/labeled		
Inspect grounding straps		

5423	MOGAS SYSTEM	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Tech Manual and EOSS Support		
Inspect PMS Support		
Inspect Gauge Calibration		
Inspect for LPD-1123K CO2 Safety Improvement		
Inspect for LPD-1113D Vent Upgrade		
Inspect Portable Inertness Analyzer (2 req'd)		
Inspect CO2 detector		
Inspect Ventilation Alarms		
- Test Expansion Tank Low Level Alarm		
- Test Airflow Indicator Alarms (Vehicle fueling station, Mogas pump room, Motor room)		
Inspect Ventilation Flame Arrestors and Gauges		
Test Ventilation Motors and Controllers		
Inspect Warning Placards installed at Mogas Pump room Entrance		
Inspect Overboard Discharge Valve and Locking Device		
Inspect elevated loop vent line check valve		
Inspect CO2 system (discharge lights, flooding pull boxes, alarm bells)		
Inspect EEBD and air line hoses and masks		
Inspect Eductor hose connection on S/W supply		
Inspect S/W and firemain supply valves		
Inspect spectacle flanges		
Inspect expansion tank (low level alarm, sight glass gauges, valves)		
Inspect Eductor (control box, supply/discharge hose, valves, discharge connections, Portable eductor)		
Test hand stripping pump (operation, valves, gauges)		
Inspect Mogas and cofferdam TLI		
Inspect Tank top pressure gauge		
Inspect explosion proof lighting		
Test ventilation alarm (growler)		
Inspect all Mogas valves		
Inspect gauge calibration		
Test Mogas pump (by hand/power)		
Inspect Venturi Pressure Regulator		
Inspect Pump Room CO2 System (valves, gauges, piping)		
Inspect all Relief Valves are within periodicity		
Inspect CO2 Room (Warning Placards, bottles, valves, gauges, piping)		
Inspect 3rd Deck double wall piping		
Inspect Fueling Station CO2 system (alarms, bottles, piping, relief valves, pull box, gauges)		
Inspect S/W pump room (valves, remote operators, gauges, pump condition/operation)		
Inspect Mogas Receiving and Transfer Station (Warning Placards, gauges, hoses, ground wires, valve assembly)		
Inspect Mogas Jettison Sponson (locker, sled, role rack, release mechanisms)		

ELECTRICAL (EL)
PRE-UNDERWAY PHASE
LPD1/7/14

EL-005	SHIPS SERVICE TURBINE GENERATORS
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Test Reverse Power Relays	A-2R
Test Parallel Operation	EOP
Test Automatic Load Shedding	A-10R

EL-005	EMERGENCY DIESEL GENERATOR
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Dead Bus Pick-up	A-7

	400 HERTZ MOTOR GENERATOR SETS
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Test Split and Parallel Operation	EOP

EL-031	TELL-TALE PANEL/NAVIGATION SIGNAL LIGHT PANEL
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Test Navigational Lighting Panel.	R-3
Measure insulation resistance of Signal Lights.	Q-3
Measure insulation resistance of Navigational Lights.	Q-3

4331	ANNOUNCING SYSTEMS
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Test General, Chemical, and Collision Alarms from all stations	Q-1R
Test 1MC from all stations	Q-1R
Test 5 MC Operation	Q-2R
Measure speaker group insulation resistance.	A-1
Test 6MC Operation	Q-1R
Test 21MC Operation	Operational Test

4751	DEGAUSSING SYSTEM
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Conduct Linearity Test	Q-1
Conduct ground test.	M-2
Inspect Degaussing Folder	NAVSEA TECH MANUAL

EL-010	AUTOMATIC BUS TRANSFER EQUIPMENT
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Test all Engineering ABTs.	S-3R/R-1
Test all remaining ABTs (day 2)	S-3R/R-1

4371	EVAPORATORS
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Test dump valve operation	S-2
Test alarm settings	S-2

4373	WIND INDICATING SYSTEM
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Test System For Proper Operation	R-1M

5081	THERMAL IMAGING SURVEY
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Commence Thermal Imaging Throughout The Ship **NOTE**: Any equipment surveyed that has a temperature rise of 40 degrees centigrade or above (3 or 4 star) must be repaired or tagged out prior to getting underway. The items will not be available until repairs are completed and re-shot for verification	R-1 / R-2

ELECTRICAL (EL)
UNDERWAY PHASE

NOTE: Electrical Underway Checks Consist Mainly Of Space Walk-Through Throughout The Ship.

In each space inspect the following if applicable:

(INSPECT) FUSE BOXES

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Are fuses pulled from designated circuits without danger tags affixed?	NSTM 300 - 2.4.1
Are there loose or missing locking nuts or gear adrift?	NSTM 300 – 4.8.1
Are circuits properly labeled for easy identification?	GSO 305E
Are there any bent, twisted, misaligned, or broken fuse clips?	NSTM 300 4.8.1
Is the interior rusty or dirty?	NSTM 300 – 4.8.1/5.2.4
Are fuses of the correct amperage and voltage installed?	GSO 303F NSTM 320 – 1.7.4
Are circuits fed from one set of fuses (except battle lantern circuits) multiple?	GSO 331C
Are fuse clips phosphor-bronze instead of silver plated?	NSTM 300 – 4.8.1.2
Were door hinges broken?	5100.19 SERIES NSTM 300
Are non-silver ferruled fuses installed?	NSTM 300 - 2.5.4
Are circuits over fused?	NSTM 300 – 2.5.4
Is clearance provided to permit complete accessibility for maintenance, repair, renewal of fuses, and testing?	GS0 300D

(INSPECT) BATTLE LANTERNS

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were relay-operated lanterns installed in sufficient number?	NSTM 330 – 1.6.4.3.3.1
Are lanterns installed with suitable bracket assemblies to prevent removal of lantern?	NAVSEA 0964-000-2000 NSTM 300
Were lanterns inoperative?	NSTM 330 – 3.6.2
Were test switches and relay frames grounded?	NSTM 330 – 2.1.8

(INSPECT) BATTLE LANTERNS (CON'T)

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Were lanterns located in explosion proof enclosures (prohibit)?	NSTM 330 – 1.6.4.3.2.2
Were NEALS lanterns installed and were they charged (red indicator)?	NSTM 330 – 1.6.4.3.2
Were relay operated lanterns fused?	NSTM 330 – 1.6.4.3.3.3

(INSPECT / TEST) SHORE POWER SYSTEM

COMPONENT/SYSTEM	PROPOSED PROCEDURE
Is shore power being properly rigged?	NSTM 320-2.2.7
Did shore power shunt trip interlocks trip its associated breakers when tested?	IAW PMS IAW EOSS GSO 320D
Was shore power system cabling between the receptacles and the ship's switchboard insulation resistance within EOSS or PMS Limits	SPRU NSTM 300/320
Were shore power indicating lights operative, white in color, and all screws installed?	NSTM 320 – 2.2.9
Were warning signs posted?	GSO 070H
Was there pigtail stowage installed?	GSO 320D
Does the shore power system meet the current standards: - Have a Viking Connector System - Have AQB-LF400 Amp Circuit Breaker with shunt trip - Have a phase sequencing and phase orientation devices. - Have installed ammeter and selector switch to monitor total shore power current.	GSO 320D

(INSPECT) CATHODIC PROTECTION SYSTEM	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Was the installed Cathodic Protection System operative and adjusted	GSO 633C
Were the rudder grounding straps made of 1-1/2 inch wide braided copper and brazed to the rudder stock and the hull?	NSTM 633 – 3.3.2.7 GSO 633C
Has the system been turned off greater than 15 days?	GSO 633G
Was brush rigging correctly installed?	NSTM 633- 3.3.2.6
Were shaft grounding brushes correctly installed?	NSTM 633 ICCP Tech Manual
Did shaft grounding brushes exhibit full contact with the slip ring?	NSTM 633 – 3.3.2.6 ICCP TECH MANUAL
(INSPECT / TEST) ALARM SYSTEMS	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Test alarm switchboards and panels.	4351/Q-2
Were any alarm and warning systems inoperative or missing parts?	GSO 433J
(INSPECT) ORDER/INDICATING/METERING SYSTEMS	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Were Tank Level Indicators (TLI's) out of calibration or inoperative?	GSO 437 E
Were valve position indicator circuits misadjusted or inoperative?	GSO 430H
Were there missing or inoperative salinity cells?	GSO 531B IAW PMS
MOTOR CONTROLLERS	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Were interiors dirty, rusty, deteriorated, or contained gear adrift?	NSTM 302-3.3.2 GSO 320F
Were wiring diagrams, schematics or overload heater tables missing?	NSTM 302-3.3.1

MOTOR CONTROLLERS (CON'T)	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Was controller electrical wiring properly banded?	ELECT PLT. INST. STD METHODS/GSO 302F
Were Start, Stop, "Emergency Run" or Reset buttons seized, missing or inoperative?	3001/S-1/18M-1
Were rubber boots cracked, torn or missing?	NSTM 300-3.2.2 3001/S-1/18M-1
Were overload relay heaters properly sized and adjusted to provide adequate protection for the motor?	NSTM 302-3.3.2 GSO 302G
Were switches protected against inadvertent activation?	GSO 070H
Were controllers with multiple power sources properly labeled?	GSO 305C
Were motor foundations properly preserved?	GSO 631J
Were controllers and remote operating stations properly labeled?	GSO 305C
Is clearance provided to permit complete accessibility for operation, maintenance, repair, renewal of fuses, and testing?	GSO 300D
WORKBENCHES	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
- Does the workbench conform to standards set forth in NSTM 300 APP H? (Insulation, ground straps, disconnect switches, labeling, ground connections, etc)	NSTM 300 GSO 320E GSO 665 GSO 650
(INSPECT) ELECTRICAL SAFETY	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Were flat irons a high-grade commercial type with a three pronged cord?	NSTM 300-2.7.3.6 GSO 640G

Were Ironing Board Stations in berthing space modified to remove spotlight and fill the access hole? Ensure irons are not hardwired.	GSO 640G
(INSPECT) ELECTRICAL SAFETY (CON'T)	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Have shorting probes been modified by installing a nylon screw in the end of the probe and soldering the clip to the conductor?	NAVELEX 0101, 110A FIG 1-3 IAW PMS
Are portable tools/devices not stamped "Double Insulated" or equipped with a three pronged cord?	NSTM 300-2.7.3.3 IAW PMS
Were Hospital grade plugs used on portable equipment?	NSTM 300-2.7.3.2.8
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4.3.3
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2.2.4 NSTM 330-2.2.9
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2.1.4 NSTM 330-2.2.6
Did diesel module room have adequate lighting?	GSO 331B GSO 332E
Were spray-tight fixtures adequately protected against water intrusion?	NAVSEA 0964-000-2000
Was bunk lighting cable hanging, or not routed through the inside of bunk stanchions?	NAVSEA 0964-000-2000
(INSPECT) CABLING	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Was PVC cabling installed (new construction only)?	GSO 304D
Were dead-ended cables properly identified/terminated?	NSTM 300-4.6.7 GSO 304E NSTM 300-4.6.9 DOD-STD-2003-1
Were useless or improperly installed cables removed?	NSTM 300-4.6.7.1 GSO 304E
Was cabling properly supported, routed or were nylon wire ties being utilized?	GSO 304E

(INSPECT) CABLING (CON'T)	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Were cables pulling out of equipment?	GSO 331E
Were cables improperly spliced?	GSO 304E NSTM 300-4.6.8 DOD-STD-2003-1
Were cables protected against being handholds or being stepped on?	GSO 304E
Was cabling run through beams without the use of chaffing rings?	NSTM 300 TABLE 300-4-4 GSO 304E
Was cabling running through metal partitions equipped with grommets?	GSO 304E NSTM 320-1.6.11
Were cable stuffing tubes properly assembled ?	NSTM 300-4.6.10.1 NSTM 300 TABLE 300-4-4 NSTM 320-1.6.11 GSO 304E
Were multiple cables running through one stuffing tube?	GSO 304E NSTM 300 TAB. 300-4-4
Were multi-cable penetrators installed in Flammable Liquid Storerooms?	GSO 304E MIL-STD-1310
(INSPECT) BUS TRANSFER EQUIPMENT	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Were ABT's installed for the following: - Emergency Lighting. - IC Switchboard and panels. - Steering power panel. - Pumps associated with the main and auxiliary machinery plant having Low Voltage Release (LVR) control. - Fire pumps. - Fire extinguishing auxiliaries and controls.	NSTM 320-1.3.2 GSO 320D
Did ASCO ABT transfer switches have an electrical charge on the metal screw on the manual operator?	NAVSEA FSC SER 03E2/03E2-234
Was the sliding interlock on manual bus transfer switches effective at preventing both breakers from being closed at the same time?	NSTM 300-4.8.4.2

Are feeder circuit breaker megger holes blanked off?	NAVSEA 230319ZNOV 98
Were Normal/Alternate source indicating lights operative?	NSTM 320-2.2.6.4
(INSPECT) SHIP TELEPHONE SYSTEM	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Was the system unreliable due to unresolved software or hardware deficiencies?	NSTM 430-3 GSO 432
Test battery back-up for telephone system	NSTM 313-2.5 GSO 313J
(INSPECT) MOTORS	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Were motor foundations properly preserved?	NSTM 300- 5.4.3.10 GSO 631J
Was resilient mounted electrical equipment groundedto the ships hull through ground straps?	NSTM 300- 2.2.1
Did electrical rotating machinery have ball check grease fittings (zerk fittings) installed?	NSTM 244
Were coupling, belt, or chain guards effective?	GSO 320E
POWER PANELS	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Do labels specify the proper information?	GSO 305E
Do Breaker ratings match the circuit label current rating?	GSO 305E
Are multi-phase circuits missing breaker connecting handles?	GSO 324C
Were power panels located inside galley spaces?	GSO 320E
Is clearance provided to permit complete accessibility?	GSO 300D
CASUALTY POWER CABLES	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Were cable ends properly terminated?	GSO 304E NSTM 320-3.4.1 DOD-STD-2003
Were cables deteriorated from age, heat, and humidity?	NSTM 079-47.4.2.2.10
Were normally energized power terminals labeled?	NSTM 320-1-2-8-2 GSO 320G

Were racks properly identified as to number/length of cables assigned to the rack?	GSO 305F
CASUALTY POWER CABLES (CON'T)	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Is there a label attached at the end of the cable to indicate the length and stowage rack number?	GSO 305F DOD-STD-2003
Are cable leads properly identified for phase identification?	NSTM 320-1.2.8.2
Were cable ferrules missing or heavily oxidized?	NSTM 079-47.4.2.2.6
Was an improper number/length of cable installed on a cable rack?	NSTM 079-47.5.6.1 GSO 320G
Were wrenches missing from terminals?	NSTM 079-47.4.2.3.3
Were covers installed on power terminals?	NSTM 079-47.4.2.3.4 NSTM 079-47.4.2.3.6 GSO 320G
ELECTRICAL DISTRIBUTION EQUIPMENT	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Was electrical distribution equipment securely mounted?	NSTM 300-4.3.3 GSO 300D
Electrical distribution equipment have loose or missing covers?	NSTM 300-4.3.3
Were control knobs or fasteners missing from electrical equipment?	NSTM 300-4.3.3
Was electrical equipment protected from water intrusion?	NSTM 300-4.4.1 NSTM 300-4.4.5
Is electrical properly mounted or was it suspended solely by electrical cables?	NSTM 300-4.3.3
Were 440 multipurpose outlets properly phased?	NSTM 320-1.4.1
Did Standard Navy Receptacles (SNR) and Multi-Purpose Outlets (MPO) have an interlock switch or was the switch function such that the plug could not be removed from an energized receptacle?	NSTM 320-1.4.1
Were electrical receptacles broken or damaged?	NSTM 300-2.7.6
Were 400HZ AC, 60HZ AC, and DC convenience	GSO 320

outlets labeled to prevent equipment being used with the wrong frequency?	

SOUND POWERED TELEPHONE SYSTEMS	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Were any Sound Powered Circuits below 50,000 ohms resistance to ground?	GSO 432I
Were Sound Powered Call Signal Stations (growlers) inoperative, corroded, damaged or missing parts?	NSTM 430
Were Sound Powered Jackboxes improperly labeled, corroded, damaged, or missing parts?	NSTM 430-3.2

(INSPECT) LIGHTING	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Were darken ship switches operative and adjusted properly? Ship provide list of darken ship switches for survey.	DOD-HDBK-289 NSTM 330-3.6.5
Were light fixtures, guards, and covers securely mounted?	NSTM 300-4
Were over-sized lamps installed in lighting fixtures?	NSTM 330-2
Were light fixtures missing lenses, protective guards, or faceplates?	NSTM 330-2
Were spray-tight fixtures adequately protected against water intrusion?	NSTM 300-4
Did diesel module room have adequate lighting?	GSO 331B/332E

(INSPECT) BATTERY LOCKERS	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Was a Battery Log maintained?	NSTM 313-2 GSO 313F
Is there an electrical interlock between exhaust ventilation and battery charger?	5100.19C C0904 NSTM 313
Test ventilation interlocks	3131/S-2
Are Alkaline and Lead Acid Batteries being serviced in the same facility?	5100.19 C0904 GSOF
Is each locker provided with: - Rubber Gloves and Aprons. - Goggles. - Two battery fillers. - Two battery test sets. - One soda water container.	5100.19 GSO 313F NSTM 313
Does the locker contain an eye wash station and a deluge shower?	NSTM 313-2

(INSPECT) BATTERY LOCKERS (CON'T)	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Are battery storage racks greater than 12 inches between tiers?	GSO 313F
Were battery hold-down clamps provided?	GSO 313F
Are Acids stored in appropriate protective containers?	GSO 313F
Are battery charger plugs and jacks marked NEG. and POS.?	GSO 313F

(INSPECT) MISCELLANEOUS EQUIPMENT	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Is permanently mounted electrical equipment hardwired to the ships electrical system?	NSTM 330-1
Is hardwired electrical equipment permanently mounted?	NSTM 330-1
Was more than 1 multi-purpose power strip connected to one isolated receptacle circuit?	NSTM 300-2.7
Is electrical equipment mounted on non-conducted surfaces properly grounded?	3000 / A-5
Were Surge Protectors of the approved type?	3000 / A-4R
Are portable electric device power cords properly tinned?	3000 / Q-1R
Are permanent-type safety precautions, operating instructions, high voltage warning signs, and resuscitation instructions installed where required?	NSTM –H.5, I-2
Did electrical connection boxes have knockouts pushed in leaving access holes In the side?	NSTM 300-2.
Are non-watertight connection boxes being used in engineering spaces?	GSO 300D
Was rubber matting oil soaked, cracked, punctured, perforated or had imbedded metal or conductive particles?	GSO 634B

(INSPECT) MISCELLANEOUS EQUIPMENT (CON'T)	
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**
Did dress ship lights have broken, missing, or incorrect guards?	NSTM 330-1 3000/ R2
Were dress ship light receptacles labeled "Dress Ship Light Streamers. Not to be used for any other purpose"?	NSTM 330-1-
Were panel switches controlling circuits that are de-energized during darkened ship operation marked DARKENED SHIP?	NSTM 330-1
Had the float charge on the UPS batteries been reduced from 135vdc to 129vdc?	IAW PMS
Was UPS electronic cabinet bottom sealed to prevent water of oil entry from lower level engine room?	GS0 300D/324D NSTM 300-4

ELECTRICAL (EL)
POST-UNDERWAY
LPD 1/4/17

	OPEN AND INSPECT AS REQUIRED BY THE INSPECTION
COMPONENT/SYSTEM	**PROPOSED PROCEDURE**

MAIN PROPULSION
PRE-UNDERWAY PHASE
LPD

2210	PROPULSION BOILERS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
IDLE BOILER:		
Test F/O safety shutoff/root valves	2210/006 (R-5,6)	
Test F/O Quick Closing Valves	EOP FOS	
Inspect burner lead bends and flange shields	NSTM 221	
Test final control element air locks	2212 (A-3R)	
Test F/O service tank bulkhead stop valves	5000/005 (S-2)	
Test F/O service tank Quick Closing valves	F001/195 R-23	
Test steam smothering system	2210 18M-1	
Test safety valve hand easing gear	2210 24M-2	
Test remotely close main steam stop valve	2531/004 S-1	
Test remotely close auxiliary steam stop valve	5340/006 S-1	
ALL BOILERS:		
Test boiler water high/low level alarms	2110/006 (Q-1R)	
Test gauge glass hand easing gear	NSTM 221	
Inspect gauge glass normal/emergency lighting	NSTM 221	
Inspect bottom blow system material	NSTM 221	
Inspect bottom blow valves for leak by	NSTM 221	
Inspect for sliding feet movement	2210 M-1	
Inspect gauges/instruments	CRL	
Test air lock system	F26/235 A-3R	

2210	PROPULSION BOILERS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Periscope	NSTM 220	
Inspect smoke pipe expansion joint	NSTM 220	
Inspect Boiler Casing and Insulation	NSTM 220	
Inspect drain valve piping	NSTM 505	
Test ABC system 28 VDC UPS	2212/161 Q-4R	
Inspect Elec ABC system laptop computer		
Verify burner barrels are serialized and hydro'd	NSTM 221	

F 13	MAIN FEED PUMPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test low suction trip	F013 Q-1 Q-2	
Test overspeed trip mechanism	R2000 R-1,2	
Test/Sample lube oil	R2000 R-1,2	
Test combination exhaust/relief valve		
Inspect pump packing gland/mechanical seal	NSTM 503	
Inspect flange shields	NSTM 505	
Inspect lube oil cooler	EOP MFPT	
Inspect gauges/instruments	JFMM V4	

F 14	MAIN BOOSTER PUMPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test low pressure alarm	F 14 S-2	
Inspect gauges	CRL	
Test auto cut in	F 14 S-3	
Inspect pump packing gland/mechanical seal	NSTM 503	

F 002	FORCED DRAFT BLOWERS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Test low lube oil trip		F002/063 S-3	
Test speed limiting governor		F002/163 S-1	
Inspect/Sample lube oil		R 2000 R-1,2	
Test damper operation		F002/163 18M-1	
Inspect gauges/instruments		CRL	
Inspect lube oil cooler (OUT LET TEMP)		EOP	
Inspect flange shields		NSTM 505	

F 004	UEL OIL ERVICE UMPS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test remote shut down (cold plant)		
Inspect turbine-driven fuel oil service pump/Test Speed Limiting Governor	F004 S-3	
Test FOSP steam trip	F004/14 S-8	

F 004	FUEL OIL SERVICE PUMPS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect electric fuel oil service pump motor controller		F004/14 S-8	
Inspect flexible hose assembly/fuel oil service system		5000/005 A-1,2	
Inspect mechanical seal leakage		NSTM 503	
Test EFOSP fuel oil service constant pressure control valve		F004/086 A-7	
Test auto speed advance/low pressure shut down		F004/14 A-11	
Inspect gauges		JFMM V4	
Inspect/test fuel oil heater		EOP FOS	
Flush revolving basket strainer		2611/R06 W-1R	
Inspect discharge relief valve for modification/tag out		NSTM 505	

F 027	DEAERATING FEED TANK	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect DFT vacuum breaker	F27/059 Q-3R	
Inspect DFT gauge glass	NSTM 221	
Test DFT gauge glass hand easing gear	NSTM 221	
Inspect gauges/instruments	CRL	

F 007	EMERGENCY FEED PUMP	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Demonstrate operation and feed boiler successfully for 10 minutes	F007/028 18M-1	
Inspect for water leakage	NSTM 503	
Inspect pump discharge relief valve	NSTM 505	
Inspect gauges/instruments	CRL	

2211	BOILER INSPECTION DEVICE	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test boiler inspection device	2211/002 M-2R	
Inspect boiler inspection device case	NSTM 220	

	ADMIN/DOCUMENTATION		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
BW/FW records (last 3 months)		NSTM 220	
Bottom blow UT records		NSTM 220	
Soot blow ppg UT records		NSTM 220	
Soot blow head UT records		NSTM 220	
Burner barrel hydrotest records		NSTM 220	
Daily fuel & water report		SHIP LOP	
Safety valve settings & date		NSTM 220	

E 700	MAIN ENGINES		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Test Main Condenser SW Inlet Valve		E004/179 R-8M	
Test Main Condenser SW Outlet Valve		E004/179 R-8M	
Test Scoop Injection SW Inlet Valve		E004/179	
Test Main Circ Pump Emerg Bilge Suction Valve		2562 S-2	
Test Main Engine Guarding Valve		E700/017 S-3	
Test Throttle Valves		E700/017 S-3	
Inspect Turbine Gland Seal Regulating Valve		E700/017 S-4	
Inspect Turbine Gland Seal Dump Valve		E700/017 S-4	
Inspect Turbine Crossover Piping Sentinel Valves		E700/017 24M-2	
Test Main Circ Pump Speed Limiting Governor		2562/R02 Q-4	
Inspect main condenser expansion joints		E74/3 A-3	
Inspect Air Ejectors		EOP MEAJ	
Verify hotel drains are being recovered/aligned		EOP FW	

E 700	REDUCTION GEARS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect Sump Level and Lube Oil Condition		MLOC R2000 R-1,2	
Inspect Gear Teeth, Lube Oil Spray Pattern, Casing Interior		E700 R-22	
Inspect Attached LO Pump Angle Drive Gear		E700 24M-6	
Inspect Oil Flow in SFI's		NSTM 241	
Inspect Temperature Gauges		CRL	
Inspect Casing Exterior		NSTM 241	
Inspect Vent Fog Precipitator		EOP	
Inspect Thrust Block		EOP	
Test Shaft Turning Gear and Locking Device		E700 A-11	
Inspect Security Devices		E700 R-25	
Inspect Piping Systems		NSTM 505	
Inspect Flange Shielding		NSTM 505	

2990	LINE SHAFT BEARINGS		
Component/Sub-Component		Proposed Procedure	Accepted Procedure
Inspect/Sample lube oil		R2000 R-1,2	
Inspect Sump Drain Valve		EDORM	
Inspect Seals		EDORM	
Inspect Thermometers		JFMM V4	
Inspect Lubricator		EDORM	
Inspect Dip Stick		EDORM	
Inspect Lock Wires		EDORM	
Inspect Bearing Depth Mic Surface		NSTM 241	

2430	STERN TUBE SEALS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Gauges	JFMM V4/CRL	
Inspect Cooling Water Piping	NSTM 505	
Inspect/shift Cooling Water Strainer/Filter	EOP STCW	
Test Cooling Water Low Flow Alarm	EOP STCW	
Inspect underway seal leakage rate	NSTM 244	
Inspect LP Air Supply	NSTM 505	
Inspect LP Piping/Hoses/Fittings	NSTM 505	
Inspect CO2/N2 Piping/Fitting	2431/R01 24M-1	
Test Inflatable Seal	2431/R01 S-2	
Inspect Emergency Flax Packing Kit	TECH MAN	
Inspect Backing Ring		

2620	LUBE OIL SYSTEMS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test Main Engine Lube Oil Sequencing	2620 Q-1,4	
Test Main Engine Low Lube Oil Alarm	2620 Q-2	
Test/Inspect Electric Lube Oil Pump - Flexible coupling - Mechanical Seals - Valves and piping	2620 R-4	
Inspect SLOP Lube oil sump level	R2000 R-1	
Test/Inspect Steam Lube Oil Pump (SLOP) - Turbine - Pump - Mechanical Seals - Valves and piping	NSTM 503	
Test combination/exhaust relief valve		
Test SLOP speed limiting governor	2620/R15 R-3	
Inspect attached Main Engine Lube Oil Pump - Coupling - Mechanical Seals	2620/R15 R-5	
Inspect Lube Oil Strainer Baskets	2621/R15 24M-1R	
Inspect Lube oil cooler	EOP	
Inspect Lube Oil Strainer Enclosure	2621/R15 36M-1	
Inspect Flexible hose assemblies	5000/005 A-1,2	
Inspect system flange shields	NSTM 505	
Inspect lube oil pump relief valves/test data tag	NSTM 505	
Inspect gauges and instruments	CRL	
Inspect Temp Regulating Valve	EOP	
Inspect Unloading Valve	EOP	
Demonstrate Lube Oil Purifier Operation	EOP LOPO	

2620	LUBE OIL SYSTEMS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
- Inspect Lube Oil Purifier Flexible hoses	5000/005 A-1,2	
- Inspect Lube Oil Purifier Heater relief valve/test data tag		
- Inspect Lube oil heater (OUT LET TEMP)	EOP LOPO	
- Demonstrate Lube Oil Purifier Efficiency	R2000 R-1,2	

2500	CONTROLS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Test EOT Indicator	EOP EOT	
Test RPM Indicator	EOP EOT	
Test Console Alarms and Indicators	EOP EOT	
Test Wrong Direction Alarm	EOP EOT	

1130	HULL STRUCTURE

Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Bilges/Angle Irons	NSTM 100	
Inspect Deck Plates	NSTM 100	
Inspect Equipment Foundations and resilient mounts	NSTM 100	
Inspect Paint and Preservation	6300 S-1	
Inspect Pipe Brackets/Hangers	A700 18M-1R	
Inspect Lighting	NSTM 303	

3110	GENERATORS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect Sump Level	R2000 R-1,2	
Inspect Lube Oil Condition	R2000 R-1,2	
Inspect Lube Oil SFIs	NSTM 241	
Inspect Vent Fog Precipitator	NSTM 241	
Inspect/Shift Lube Oil Strainer	EOP LOSTG	
Airbox Telltale Drains	NSTM 310	
Test Alarm Panel	EOP TG	
Inspect Gland Seal Operation	EOP TG	
Test Aux Circ Pump	EOP TG	
Test Aux Cond Pump	EOP TG	
Inspect Aux Air Ejectors	EOP TG	
Test Lube Oil Pump Autostart	E013 S-3	
Test Low Lube Oil Alarm	E013 S-3	
Test Low Lube Oil Trip	E013 S-3	
Inspect Turbine Casing Relief Valve	E013 R21-Q	
Test Overspeed Trip	E13/124 Q-1	
Test Manual Trip	E13/124 Q-1	
Test Back Pressure Trip	E13/124 A-10	
Test Auxiliary Condenser SW Inlet Valve	5000/001 S-2	
Test Auxiliary Condenser SW Outlet Valve	5000/001 S-2	

3110	GENERATORS	
Component/Sub-Component	Proposed Procedure	Accepted Procedure
Inspect centrafilter		
Inspect flange shields	NSTM 505	
Inspect duplex oil filter(GOV)	EOP TG	
Inspect Aux Condenser sight glass	EDORM	
Inspect LO Cooler	EOPTG	

MAIN PROPULSION
UNDERWAY PHASE
LPD

	TEAM ARRIVAL		
	Component/Sub-Component	Proposed Procedure	Accepted Procedure
	Check applicable equipment for correction of deficiencies.		
	Tour space, ensure ready for sea.		

	MISCELLANEOUS		
	Component/Sub-Component		
	Inspect Oil Lab, sampling equipment	NSTM 220	
	Complete Open and Inspect List and give a copy to the Engineer Officer.		

	CHELANT TREATMENT SYSTEM		
	Component/Sub-Component	Proposed Procedure	Accepted Procedure
	Inspect Spill Locker and inventory	NSTM 221	
	Inspect hydrazine locker	NSTM 221	
	Inspect injection cabinet	NSTM 221	
	Inspect chelant treatment tank and associated equipment	NSTM 221	
	Inspect eyewash station	NSTM 221	

	DEMONSTRATIONS		
	Component/Sub-Component	Proposed Procedure	Accepted Procedure
	Demonstrate Full Power ahead (1 hour)	PMS/EOSS/POG/ 9094.1B	
	Demonstrate Quick Reversal Astern	POG/Full Power Memo/EOSS	
	Demonstrate Quick Reversal Ahead	POG/Full Power Memo/EOSS	
	Demonstrate soot blower operation as soon as possible after underway. **Note:** Demonstrate soot blower head pressure PMS on one rotating and one stationary head per boiler while blowing tubes.		
	Demonstrate boiler flex test (all boilers will be flexed prior to Full power.)		
	Demonstrate fuel oil purifier (s) operation	EOSS/PMS	